

### **What is claimed is:**

1 A communication method comprising:  
2 transmitting a first type of information on a first frequency carrier  
3 in accordance with a first multiframe type, said first multiframe type  
4 having  $x$  frames,  $x$  being an integer; and  
5 transmitting a second type of information on said first frequency  
6 carrier in accordance with a second multiframe type, said second  
7 multiframe type having  $y$  frames, wherein  $y$  is an integer that is different  
8 than  $x$ .

1        2 The communication method of claim 1, wherein  
2        said first type of information includes broadcast control  
3        information.

1           3.13 The communication method of claim 1, wherein  
2           said first type of information includes common control information.

1           4.14 The communication method of claim 1, wherein  
2        said first type of information includes broadcast control  
3 information and said second type of information includes common  
4 control information.

1                         (5.) || 15 The communication method of claim 1, further comprising:  
2                         transmitting a third type of information on said first frequency  
3                         carrier in accordance with a third multiframe type, said third multiframe  
4                         type having  $z$  frames, wherein  $z$  is an integer that is different than  $x$  and  
5                          $y$ .

1       ~~6.16~~ The communication method of claim 1, wherein:  
2        said first multiframe type has 51 frames.

1       ~~7.17~~ The communication method of claim 1, wherein  
2        said first multiframe type has 52 frames.

1       ~~8.18~~ The communication method of claim 6, wherein  
2        said second multiframe type has 52 frames, said first type of  
3       information including broadcast control information and said second  
4       type of information including common control information.

1       ~~9.19~~ The communication method of claim 1, wherein  
2        a base station of a wireless communication network performs said  
3       step of transmitting a first type of information and said step of  
4       transmitting a second type of information.

1       ~~(10.)~~<sup>19</sup> The communication method of claim 1, wherein  
2        a [current frame number] for said <sup>2<sup>nd</sup></sup> multiframe type is derived  
3       from parameters that represent a [current frame number] for said <sup>1<sup>st</sup></sup> first  
4       multiframe type.

1       ~~11.~~ A communication system comprising:  
2        means for transmitting a first type of information on a first  
3       frequency carrier in accordance with a first multiframe type, said first  
4       multiframe type having  $x$  frames,  $x$  being an integer; and  
5        means for transmitting a second type of information on said first  
6       frequency carrier in accordance with a second multiframe type, said

7 second multiframe type having  $y$  frames, wherein  $y$  is an integer that is  
8 different than  $x$ .

1 ~~12.~~ The communication system of claim 11, wherein  
2 said first type of information includes broadcast control  
3 information.

1 ~~13.~~ The communication system of claim 11, wherein  
2 said first type of information includes common control information.

1 ~~14.~~ The communication system of claim 11, wherein  
2 said first type of information includes broadcast control  
3 information and said second type of information includes common  
4 control information.

1 ~~15.~~ The communication system of claim 11, further comprising:  
2 means for transmitting a third type of information on said first  
3 frequency carrier in accordance with a third multiframe type, said third  
4 multiframe type having  $z$  frames, wherein  $z$  is an integer that is different  
5 than  $x$  and  $y$ .

1 ~~16.~~ The communication system of claim 11, wherein:  
2 said first multiframe type has 51 frames.

1 ~~17.~~ The communication system of claim 11, wherein  
2 said first multiframe type has 52 frames.

1       18. The communication system of claim 16, wherein  
2       said second multiframe type has 52 frames, said first type of  
3       information including broadcast control information and said second  
4       type of information including common control information.

1       19. The communication system of claim 16, wherein  
2       said means for transmitting a first type of information and said  
3       means for transmitting a second type of information are components of a  
4       base station of a wireless communication network.